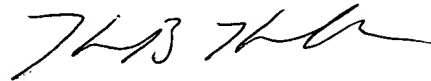


REMARKS

Applicant has paid a fee under 37 C.F.R. 1.16(c) for newly added dependent claims 24-30.

Respectfully Submitted,



H. Brock Kolls

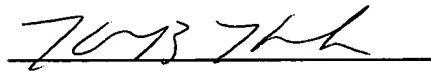
Applicant

Agent #42,757

Dated: October 8, 2001

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope with sufficient postage addressed to: Assistant Commissioner for Patents, Washington, D. C. 20231

on October 8, 2001



H. Brock Kolls

VERSION WITH MARKINGS TO SHOW CHANGES MADE**IN THE CLAIMS**

- 1 1. (Amended) A communication interface device for managing wireless data
2 communications between an in-vehicle device installed in a vehicle and a
3 plurality of global network based data processing resources, said communication
4 interface device being located external to said vehicle, said communication
5 interface device comprising:
6
7 a controller;
8
9 a wireless transceiver interconnected with said controller for wirelessly data
10 communicating between said in-vehicle device and said communication
11 interface device;
12
13 a plurality of communication interfaces interconnected with said controller for
14 data communicating between said communication interface device and said
15 plurality of global network based data processing resources; and
16
17 a memory interconnected with [a microprocessor] said controller for
18 managing data communication [data flow including caching received data
19 communications from said wireless transceiver, or from said plurality of
20 communication interfaces, and for data or protocol conversion] between said
21 wireless transceiver, and said plurality of communication means;
22
23 [wherein, data communicated between said in-vehicle device and said wireless
24 transceiver is processed, and routed by said microprocessor to said plurality of

25 communication means for data communication to said plurality of global
26 network based data processing resources;

27

28 wherein, data communicated between said plurality of communication
29 interfaces is processed, and routed by said microprocessor to said wireless
30 transceiver for data communication to said in-vehicle device;

31

32 wherein, said in-vehicle device data communicates, by way of said
33 communication interface, with said plurality of global network based data
34 processing resources.]

35

36 wherein, data communication between said in-vehicle device and said plurality of
37 global network based data processing resources is effectuated by way of said
38 communication interface device.

39

1 2. (Amended) The communication interface device in accordance with claim 1,
2 wherein[,] said plurality of communication interfaces includes at least one of the
3 following communication interface types: a universal serial bus port, a personal
4 data assistant interface, an RS232 interface, an RS485 interface, a carrier current
5 interface, a network connection to the [I]internet, a modem interface, a wireless
6 modem interface, a cellular phone transceiver, a cellular phone interface, a
7 wireless data link, or a local area network interface.

8

1 3. (Amended) The communication interface device in accordance with claim 1,
2 wherein[,] said plurality of interfaces is a[n] computer interface to a [personal]
3 computer, said [personal] computer having data communication access to said
4 plurality of global network based data processing resources, such that said in-
5 vehicle device, by way of said computer interface [to said personal computer],
6 data communicates with at least one of the following: said [personal] computer,

7 [and data communicates with], or said plurality of global network based data
8 processing resources.

9

1 4. (Amended) The communication interface device in accordance with claim 1,
2 wherein[, said plurality of global network based data processing resources
3 includes a personal computer, said plurality of interfaces is an interface to said
4 personal computer;

5

6 wherein,] said communication interface device and said in-vehicle device data
7 communicate[s] with at least one of the following: a programmable storage
8 device, a computer, a pocket sized personal computer, a pager, a wireless
9 phone, or a personal data assistant.[,]

10

11 [wherein, said programmable storage device, or said personal data assistant
12 being programmable by said personal computer, or by said plurality of global
13 network based data processing resources having data communication access to
14 said personal computer, or said in-vehicle device.]

15

1 5. (Amended) The communication interface device in accordance with claim 1,
2 wherein[,] said communication interface device is an internet appliance device.

3

1 6. (Amended) The communication interface device in accordance with claim 1,
2 wherein[,] said communication interface device is interconnected with at least one
3 of the following: a computer, a pocket sized personal computer, a point of sale
4 system, a database, a garage door opener, a gas pump, a toll booth, a change toll
5 booth, a wireless toll-pass system, a traffic light pole, a pole, a traffic light, a
6 parking gate, a parking terminal, a store display, an internet appliance device, or a
7 vehicle analyzer.

8

9

1 7. (Amended) A method of monitoring the location of a vehicle equipped with an in-
2 vehicle device, said in-vehicle device wirelessly data communicates with a
3 plurality of global network based data processing resources, wherein[,] wireless
4 data communication between said in-vehicle device and said plurality of global
5 network based data processing resources is [facilitated] effectuated by a
6 communication interface device, said method comprising the steps of:

7

8 from said communication interface device client side:

9

10 a) receiving a data communication at said communication interface device
11 from said in-vehicle device, said data communication occurring when said in-
12 vehicle device is in wireless proximity with said communication interface
13 device;

14

15 b) routing said data communication to said plurality of global network based
16 data processing resources;

17

18 c) receiving a plurality of return data [as required] from said plurality of
19 global network based data processing resources;

20

21 d) communicating wirelessly said plurality of return data to said in-vehicle
22 device;

23

24 from [the] said plurality of global network based data processing resources server
25 side:

26

27 e) identifying said data communication received from said communication
28 interface device;

29

30 f) modifying a vehicle location database[, said vehicle location database being
31 located on at least one of said global network based data processing
32 resources];

33

34 g) determining appropriate said plurality of return data; and

35

36 h) communicating said plurality of return data to said communication
37 interface device for wireless data communication to said in-vehicle device.

38

1 8. (Amended) The method of monitoring the location of a vehicle in accordance
2 with claim 7, wherein[,] the step of receiving return data includes receiving
3 command and control data from said plurality of global network based data
4 processing resources, [, wherein command and control data can include enabling
5 or disabling operation of said vehicle.]

6

1 9. (Amended) The method of monitoring the location of a vehicle in accordance
2 with claim 7, wherein[,] said communication interface device is an internet
3 appliance device.

4

1 10. (Amended) The method of monitoring the location of a vehicle in accordance
2 with claim 7, wherein[,] the step of modifying a vehicle location database
3 includes modifying [a] said vehicle location database for at least one of the
4 following applications: regulating attendance based on said vehicle entry to[,] or
5 exit from a parking area [through a parking gate or parking terminal], enabling or
6 disabling operation of said vehicle when said vehicle passes in wireless proximity
7 to said communication interface device, [said vehicle] route or trip progress
8 tracking of said vehicle, calculating said vehicle rate of speed between a plurality
9 of checkpoints [each of said plurality of checkpoints being equipped with said

communication interface device], or calculating said vehicle rate of speed between said plurality of checkpoints [each of said plurality of checkpoints being equipped with said communication interface device] for the purpose of identifying speeders [and issuing speeding tickets].

11. (Amended) A method of data communicating between a wireless device, a plurality of global network based data processing resources, and an in-vehicle device installed in a vehicle, [wherein said wireless device, by way of said in-vehicle device, communicates with a plurality of global network based data processing resources, or accesses said in-vehicle device data] said method comprising the steps of:
- a) initiating data communication between said wireless device and said in-vehicle device;
 - b) [allowing wireless device to access data stored within said in-vehicle device or accessible by said in-vehicle device;] communicating a plurality of data between said in-vehicle device and said wireless device;
 - c) routing said plurality of data from said wireless device [data] to a communication interface device, said communication interface device having data communication access to a plurality of global network base data processing resources;
 - d) receiving at said wireless device a plurality of return data as required from said plurality of global network based data processing resources by way of said communication interface device; and

e) communicating said plurality of return data [to] between said wireless device and said in-vehicle device, [by way of said communication interface device; and

f) routing said plurality of return data received at said in-vehicle device to said wireless device.]

12. (Amended) The method of data communicating between a wireless device [and an in-vehicle device], a plurality of global network based data processing resources, and an in-vehicle device in accordance with claim 11, wherein[,] the step of [allowing said wireless device to access data stored in said in-vehicle device or accessible by said in-vehicle device] communicating a plurality of data between said in-vehicle device and said wireless device includes data communicating [allowing said wireless device to access] at least one of the following types of data: said vehicle data [operational status], said vehicle telemetry data, said vehicle metric data, said in-vehicle device [memory] data, said in-vehicle device [stored] digital content [including audio data, video data, data files], said in-vehicle device settings, [or] said vehicle data, [or] said in-vehicle device system preferences, said in-vehicle device digital audio content, or said in-vehicle device digital video content.

13. (Amended) The method of data communicating between a wireless device [and an in-vehicle device], a plurality of global network based data processing resources, and an in-vehicle device in accordance with claim 11, wherein[,] said wireless device is at least one of the following: a wireless phone, a personal data assistant, a pager, a pocket sized personal computer, an internet appliance device, or a programmable data storage device.

9

1 14. (Amended) The method of data communicating between a wireless device [and an
2 in-vehicle device], a plurality of global network based data processing resources,
3 and an in-vehicle device in accordance with claim 11, wherein[,] said wireless
4 device data communicates with said in-vehicle device by way of at least one of
5 the following methods: hard wired connection, infrared connection,
6 BLUETOOTH standard and protocol, or WIRELESS APPLICATION
7 PROTOCOL and standard.

8

1 15. (Amended) The method of data communicating between a wireless device [and an
2 in-vehicle device], a plurality of global network based data processing resources,
3 and an in-vehicle device in accordance with claim 11, wherein[,] said
4 communication interface device is an internet appliance device.

5

1 16. (Amended) The method of data communicating between a wireless device [and an
2 in-vehicle device], a plurality of global network based data processing resources,
3 and an in-vehicle device in accordance with claim 11, wherein[,] said
4 communication interface device is interconnected with an internet appliance
5 device.

6

1 17. (Amended) A method of servicing a vehicle including procuring automotive
2 replacement parts from a communication interface device, said communication
3 interface device being accessible by a customer, said communication interface
4 device being located in an auto parts store, an auto parts area, a vehicle service
5 center, or a vehicle sales center, said method comprising the steps of:

6

7 a) allowing said customer to interact with said communication interface
8 device;

9

b) accessing digital content to aid said customer in a plurality of services or products selection, wherein accessing digital content includes accessing at least one of the following: local digital content, [or] databases, or a plurality of [remote] global network based data processing resources [including remote digital content or databases];

c) presenting digital content to said customer, including digital content related to said plurality of services or products;

d) allowing said customer to physically select at least one of said plurality of services or products [based in part on digital content presented to said customer] from on-hand inventory;

e) determining, through customer interaction with said communication interface device, if said customer successfully physically selected at least one of said plurality of services or products from on-hand inventory;

f) allowing as required said customer to order any one or more of said plurality of services or products by way of said communication interface device; and

g) effectuating as required an e-commerce transaction, or an e-business transaction to fulfill said customer's order.

18. (Amended) The method of servicing a vehicle in accordance with claim 17 further comprising the step of:

a) charging a plurality of fees for [digital content and services] at least one of the following: said e-commerce transaction, said e-business transaction,

digital content, said plurality of services or products, distributing said plurality of digital content, for royalty payments, for service fees, for download charge, for network time, for digital content access, time utilized charge, or for facilitating an e-commerce or e-business transaction.

19. (Canceled)

20. (Amended) The method of servicing a vehicle in accordance with claim 17,
wherein[,] the step of allowing a user to interact with said communication
interface device includes at least one of the following interactions: transferring
data between a wireless device and said communication interface device, [or]
manually interacting with said communication interface device, [through] voice
recognition, biometric recognition, keypad, general purpose said communication
interface device input or output, or touch screen input.

21. (Amended) The method of servicing a vehicle in accordance with claim 20,
wherein said wireless device is at least one of the following: a wireless phone, a
personal data assistant, a pager, a pocket sized personal computer, an internet
appliance device, or a programmable data storage device.

22. (Amended) A method of using a wireless device to transfer data between an in-
vehicle device installed in a vehicle and a [personal] computer located external to
said vehicle, said [personal] computer being interconnected with a communication
interface device, said [personal] computer data communicates with said wireless
device by way of said communication interface device comprising the steps of:

a) initiating a data communication between said wireless device and said in-
vehicle device;

b) transferring data between said wireless device and said in-vehicle device [wherein, transferring data includes transferring data related to at least one of the following: data related to said vehicle, data related to said in-vehicle device, data related to said wireless device, data from said personal computer previously stored in said wireless device, or data from a plurality of global network based data processing resources previously stored within said wireless device or accessible by said wireless device];

c) transporting said wireless device to a physical location external to said vehicle and in wireless proximity to said communication interface device, wherein[,] data communication between said wireless device and said communication interface device [can occur] is effectuated;

d) initiating a data communication between said wireless device and said communication interface device; and

e) transferring data between said wireless device and said [personal] computer by way of said communication interface device [wherein, transferring data includes transferring data related to at least one of the following: data related to said vehicle, data related to said in-vehicle device, data related to said wireless device, data stored within said wireless device or accessible by said wireless device, including transferring data between said wireless device and said plurality of global network based data processing resources].

23. (Amended) The method of using a wireless device to transfer data in accordance with claim 22, wherein[,] said wireless device is at least one of the following: a wireless phone, a personal data assistant, a pager, a pocket sized personal computer, an internet appliance device, or a programmable data storage device.

6

7

1

2

3

4

5

6

7

8

9

1

2

3

4

5

6

7

8

9

10

11

12

1

2

3

4

5

6

24. (Newly Added) The method of using a wireless device to transfer data in accordance with claim 22, wherein transferring data in steps b and e includes transferring data related to at least one of the following: data related to said vehicle, data related to said in-vehicle device, data related to said wireless device, data related to a user, data related to said user preferences, data from said computer, data stored within said wireless device or accessible by said wireless device, a database, or data from said plurality of global network based data processing resources

25. (Newly Added) The communication interface device in accordance with claim 1, wherein:

data communicated between said in-vehicle device and said wireless transceiver is processed and or routed by said controller to said plurality of communication means for data communication to said plurality of global network based data processing resources; and or

data communicated between said plurality of communication interfaces is processed and or routed by said controller to said wireless transceiver for data communication to said in-vehicle device.

26. (Newly Added) The communication interface device in accordance with claim 1, wherein the managing of data communication data flow between said in-vehicle device and said plurality of global network based data processing resources includes data and or protocol conversion between said wireless transceiver and or said plurality of communication means.

7

1 27. (Newly Added) The communication interface device in accordance with claim 1,
2 wherein said communication interface device manages data communication
3 including caching data communications from said wireless transceiver and or
4 from said plurality of communication interfaces.

5

1 28. (Newly Added) The communication interface device in accordance with claim 4
2 wherein, data communication between said in-vehicle device and said
3 communication interface device is effectuated by transferring data between at
4 least one of the following: said computer, said pocket sized personal computer, a
5 point of sale system, said programmable storage device, said personal data
6 assistant, said pager, or said wireless phone.

7

1 29. (Newly Added) The communication interface device in accordance with claim 27
2 wherein, a user effectuates the data communication between said communication
3 interface and said in-vehicle device by physically carrying the data
4 communication device between said in-vehicle device and said communication
5 interface.

6

1 30. (Newly Added) The method of monitoring the location of a vehicle in accordance
2 with claim 8, wherein command and control data can includes enabling or
3 disabling operation of said vehicle.

4